



Features

- 11th Gen Intel® Core™ i7/i5/i3 Processor
- Intel® Iris® Xe Graphics
- Single Memory Socket, Max. Up to 32GB DDR4 3200
- Dual Display, HDMI 2.0b
- Dual Intel® Gigabit Ethernet, 2.5GbE, 1GbE
- Triple M.2 Slot, Key-E/B/M for Wi-Fi, LTE, SSD, I/O module
- Supports iAMT, Kensington Lock, IP40
- Default dTPM 2.0, Mounting Kit, Wi-Fi (CE/FCC)certificated



Wi-Fi 6E
CE/FCC
Certified



Ultra Slim
H only 36mm



Vibration/
Shock
5G/55G



High Speed
NVMe 4-PCIe



No Vent
IP40

Specifications

System Information

Processor	Intel® Core™ i7-1185G7E Processor (15W) Intel® Core™ i5-1145G7E Processor (15W) Intel® Core™ i3-1115G4E Processor (15W)
System Memory	1 x 260-pin DDR4 SODIMM Socket, Supports Up to 32GB DDR4 3200MTs SDRAM
I/O Chipset	EC ITE IT5571VG-I-128/CX
BIOS Information	AMI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
TPM	TPM2.0
iAMT	Above Core i5 (selected SKUs)
SBC	NCM-TGU

Expansion

M.2	1 x M.2 Key-M 2280 (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042/3052 with Internal SIM Slot (PCIe, SATA, USB 2.0) 1 x M.2 Key-E 2230 (PCIe, USB 2.0)
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Storage

M.2	1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4) 1 x M.2 Key-B 2242 (PCIe Gen4 x 1, SATA3)
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Front I/O

USB	2 x USB 2.0
Power Button	1 x Power On/Off w/LED
COM Port	2 x RS232/422/485 (BIOS)
LED Indicator	1 x Data Access 1 x Wi-Fi 1 x LTE
Audio	1 x Line-Out, 1 x Mic-In

Rear I/O

USB	4 x USB 3.2 Gen.2 (10Gbps)
LAN Port	2 x RJ45
HDMI	2 x HDMI 2.0b
AC/DC Input	1 x Lockable DC Jack

Right I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover
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Left I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover
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Display

Graphic Chipset	Intel® Iris® Xe Graphics (i7-1165G7/i5-1135G7) Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)
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Resolution	2 x HDMI 2.0b: 4096x2304@60Hz
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Audio

Audio Codec	RealTek ALC888S-VD2-GR
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Ethernet

LAN Chipset	1 x Intel® I225-LM 1 x Intel® I219-LM
Specification	10/100/1000/2.5 Gigabit (I225-LM) 10/100/1000 Gigabit (I219-LM)

Power Requirement

ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	60W AC to DC Adapter (Default)/ 120W AC to DC Adapter (Option) Note1: 60W for general mode (storage, communication, display, USB port, room temp.) Note2: 120W for full load mode (general mode pluses max. workload and operating temp.)

Software Support

OS	Win10, Win11, Linux
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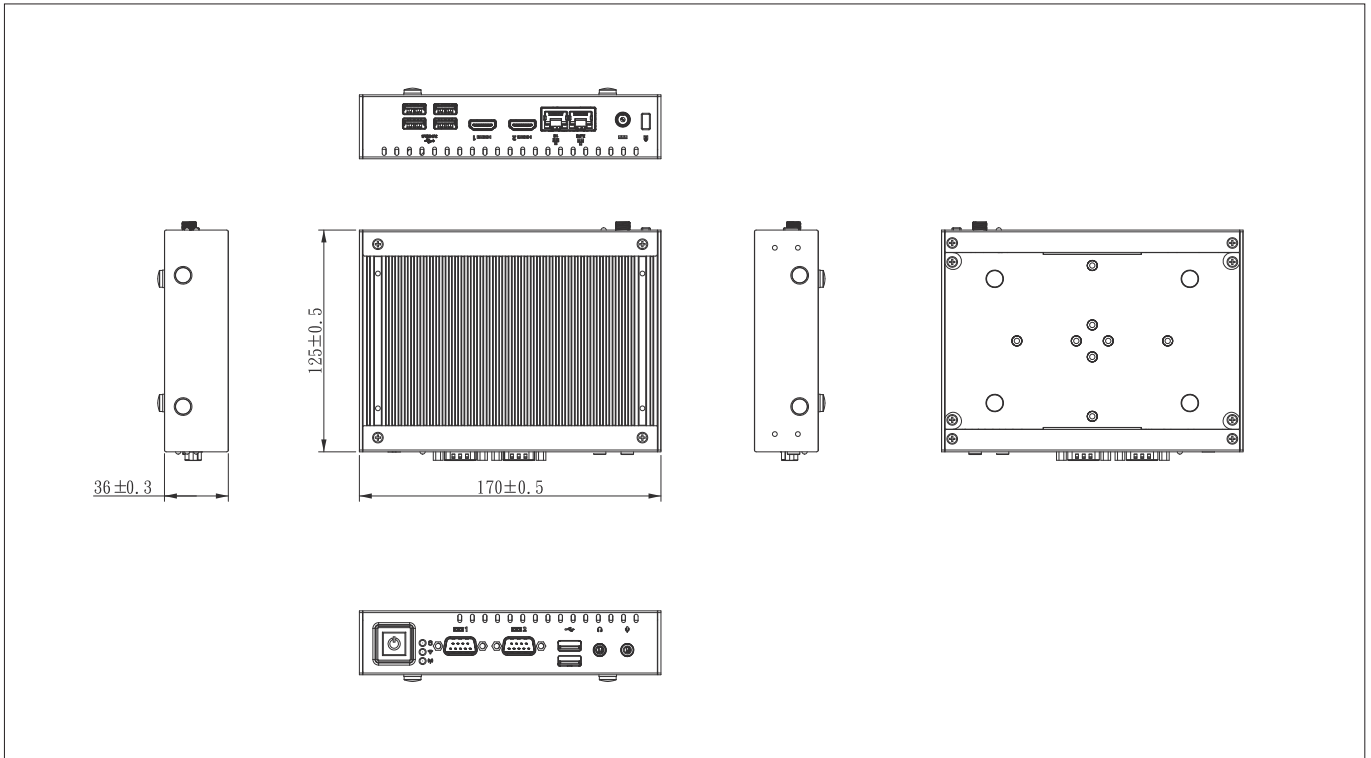
Certification

Certification Information	CE, FCC Class B, UKCA Wi-Fi 6E certified
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Mechanical & Environmental

Operating Temp.	With extended temperature peripherals: 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-30~70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	170mm x 125mm x 36mm (6.69" x 4.92" x 1.42")
Weight	0.85kg
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
Shock Test	With SSD: 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
IP Rating	40
Kensington Lock	1 x Kensington Lock
Mounting Kit	Table Stand/Din Rail/VESA(Default)

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.	OS Support
NUC-TGU-I7E-A1-1R	Intel® Core® Processor i7-1185G7E	8GB DDR4	12V/5A	Stand/Din-Rail/VESA	2/6/2	HDMI	+12V DC in	0°C ~ 60°C	Windows 10/11 Linux
NUC-TGU-I5E-A1-1R	Intel® Core® Processor i5-1145G7E	8GB DDR4	12V/5A	Stand/Din-Rail/VESA	2/6/2	HDMI	+12V DC in	0°C ~ 60°C	Windows 10/11 Linux
NUC-TGU-I3E-A1-1R	Intel® Core® Processor i3-1115G4E	8GB DDR4	12V/5A	Stand/Din-Rail/VESA	2/6/2	HDMI	+12V DC in	0°C ~ 60°C	Windows 10/11 Linux

Packing List

Item	Quantity
NUC-TGU Slim System	1
AC/DC Adapter 12V/5A	1
Vesa Mount	1
Din Rail Kit	1
Screw Kit for Peripherals	1
Table Stand	1

Optional Items

Item	P/N
AC/DC adapter 12V/10A	ACC-ADP-120N-07R
Power Cord 3P (F)-3P (M) 183cm, USA Type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU Type	E1702031000R
Power Cord 3P (F)-3P (M) 183cm, Japan w/PSE Type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK Type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia Type	E1702031831R
Intel AX210.NGWGIE.NV, Wi-Fi kit (Dipole)	ACC-WIFI-KIT-14R

I/O Overview

